

EDINBURGH'S True Almanack, Or a New

Prognostication

For the Year of our LORD, 1686. 30

Being the second year after Bissextile or Leap year, and from
the Creation of the World, 5635.

Exactly calculated according to Art, for the Meridian of
the most famous City of EDINBURGH, whose Latitude
55 d. 00 m. and Longitude is 11 d. 37 m. from Pico Taniriff.

According to the newest Tables.

Advertisement, That Mr Duncan Liddel doth still maintain the
errors of his last years Almanack, and brings in a gross and igno-
rant contradiction as his greatest argument, by comparing the old
and new stile, making but 3 dayes between their Feasts and ours;
& yet confesseth that there is 10 dayes between their account and
ours, which agreeth with the Feasts in mine; after which he
bringeth in a notorious lye, in saying, *I was taught by a Weaver in
Dublin*, whereas I was never in Dublin to this day.

As also, there is a counterfeit Edinburgh Almanack full of gross
errors, copied by the heirs of Andrew Anderson, from my last
years Almanack, and the Aberdeens Almanack, for the year
1686, which also is but a counterfeit it self, copied from
the Ephemeris of Wing and Gadbury, as themselves confess, and
the more easie to deceive the Countrey, they call themselves a
Lover of the Mathematicks, whereas the Mathematicks hath no
greater enemy, then these ignorant Almanack-makers, and if not
discharged to proceed therein, they shall err 3 weeks in the
Feasts for 1687, to the great loss of this Kingdom in the Fairs
and Terms of the year.



BY JAMES PATERSON Mathematician.

Edinburgh, Printed by JOHN REID, for the year 1686.

A Succinct Computation of Memorable things to this present Year, 1686.

Creation of the World	5655
Flood of Noah	3979
Building of Rome	2438
Building of Edinburgh Castle	2016
First King of Scotland, Fergus	2015
Passion and Death of CHRIST	1653
Conversion of St Paul	1652
Christian Faith was first received in Scotland	1476
First use of Guns	300
Invention of Printing	246
Colledge of Glasgow was builded	231
Battle of Pinkie September 10	139
Battle of Corrychie September 10	124
Battle of Brichen	114
Colledge of Edinburgh was builded	104
Bridge of Dee was foughten	97
Coll: of Aberdeen was founded by the Earl Marischal	93
Battle of Glenlivet	92
Gunpowder treason, Novem. 5	81
Birth of King Charles the first	86
Birth of King Charles the second May 29	56
Birth of King James the seventh Octob. 14	53
Bridge of Dee was foughten again in June	47
Rebellion in Ireland,	45
Battle of Tippermoer Sep. 1. and Aberdeen Sep. 14	42
Battle of Inverlochie Feb. 2, Old-Earn May 9, Alford	41
July 2, Kilsyth Aug. 15. and Philliphaugh.	
Battle of Preston, comonly called the Dukes ingagment	38
Death of King Charles the second, Feb. 6,	1
K. James the 7 proclaimed K. at Edinburgh, Feb.	

Common or Vulgar Notes this year, 1686.

THE Golden Number is	15
The Epact	15
The Dominical Letter	C
Fastens Even, or Strove-tuesday, February	16
Pasch or Easter, April	4
Ascension day, May	19
Whituncay, May	28

Of the Eclipses this year. 1686.

There will be but one Eclipse this year, and that will be of the Moon, on the 19 d. of *Novem.* in the 8 degree of *Gemini* and will be visible to us, as followeth,

Digits eclipsed 6 dig. 44. m.

True time of the ap-
parent opposition at } H M S
Edinburgh, Nov. 19. d. } 11. 1. 22

Beginning of this E-
clipse at *Edinburgh* } 9. 27. 17.

The greatest obscu-
ration, - - - } 10. 54. 9.

The end at *Edinburgh*.
Nov. 20. d. - } 00 21. 1



In this Eclipse the Sun is besieged between *Jupiter* Lord of the year, & *Mercury* Lord of this eclipse (and likewise of the last on Nov. 30. 1685, in *Gemini*;) all three is in opposition to the eclipsed Moon which is separate from the conjunction of *Aldebaren*, and the Sun from the conjunction of *Cor Scorpii*, *Jupiter* is hastning to the conjunction of *cor Scorpii* & *Mercury* to the conjunction of *caput Herculis*. Those places under *Gemini*, as *Flanders*, *London*, &c. are much concerned in this Eclipse *Saturn* Lord of the fifth, being in *Sextile* to *Mercury*, *Jupiter* and the Sun, and a *Trin* to the eclipsed Moon in their ascendant fortels them that they may expect Ambassadors this year.

This year begins with an opposition of the two *Malefactors* *Saturn* and *Mars*, on the 14 of *January*, *Saturn* being in the 29 d. of *Virgo* and *Mars* in the 29 d. of *Pisces*. And on the 23 of *Octob*: they shall conjoyn in the 7 d. of *Libra* which threatens those places under *Libra*, as *Austria*, *Vienna*, &c. to be in great danger of falling into the hands of a strong and potent Enemy; Also those persons under *Libra* with death, if not prevented by the *Sextile* of *Saturn* and *Jupiter*, *Saturn* being in the 12 d. of *Libra* and *Jupiter*, in the 12 d. of *Sagittarius* both in their own essential dignities.

Advertisement, To all that are desirous to Write well, or learn to Write, There is a set of Copies of the Round Hand, with Directions how to use them, publish'd by John Chalmer Writing-Master in *London*, and sold by Alexander Ogston Stationer in the Parliament Closs.

The exact Day, Hour and Minute of the New Moon, her Full and Quarters, with the daily disposition of the Weather, the whole remarkable Fairs in SCOTLAND; with some remarkable days for the year 1686. Also the Sun's Rising and Setting at Edinburgh, the first day of each Moneth.

January begins on Friday, XXXI dayes.

Sun riseth 25 minuts past 8, and sets 35 minuts past 3.

Last quarter on Thursday 7 day, 52 min: past noon.

New Moon on Wednesday 13 day, 39 min: past 11 at night:

First quarter on Thursday 21 day, 30 min. past 8 morning:

Full Moon Friday 29 day, 52 min. past 9 forenoon.

This year begins with fair cold and frosty weather to the 9 day, from thence to the 14 day stormy, from thence to the 22 day more calm, yet the opposition of Saturn and Mars promiseth a temperat cold, the 20 day there is a conjunction of the Sun and Mercurie, the 22 day there is an opposition of Saturn and Venus, from thence to the 28 day snow and moist weather, the moneth ends with changeable weather, because of the Square of Jupiter and the Sun the 31 day.

The first Fair in the year is at Kilsyth the 1 day. St. Naughlan's fair at the town of old meldrum the 2 tuesday; Tantan fair at Lawrence kirk, and at the kirk of Bethelny in Gerry upon the 7 day. St. Mungo in Glasgow, and at the town of Polwart the 13 day; at Dunkel and Kilwinning the 21 day; st. Pauls fair in Turriff in Buchan the last tuesday.

February begins on Munday, XXVIII dayes.

Sun riseth 25 min. past 7 sets 35 min. past 4.

Last quarter Friday 5 day, 37 min. past 7 at night.

New Moon Friday 12 day, 6 min. past 1 afternoon.

First quarter Saturday 20 day, 17 min. past 3 morning.

Full Moon Sunday 28 day, at 4 in the morning.

This moneth begins with cold snow and dry winds to the 8 day from thence to the 14 changeable, from thence to the 25 day fair and clear, upon the 25 day there is a Square of Jupiter and Mercurie, which pretends the moneth to end with much snow.

St. Brides fair at Abernethie, Forres in Murrayland, and at the Town of Innernes the 1 day, Candlemas fair in Barnff, Dunkel, Dingwall and Dowglas the 2 day, Candlemas fair at the Town of Ratray in Buchan the first tuesday after Candlemas, at Cowper of Fife the 1 wednesday of the moneth, at Methlick the second tuesday, Valintines day being still on the 14 day, at Linlithgow; at Forfar the 15 day, holding 8 dayes, at Valleyfield the 24 day.

Whiles in February, whiles in March.

Fastens even fair at Fyvie, and Lanerkeon Fasten even-day.

March begins on Munday, XXXI dayes.

Sun riseth 20 min. past 6 sets 40 min. past 5.

Last

Last quarter Sunday 7 day, 19 min. past 6 in the morning.

New Moon Sunday 14 day, 42 min. past 1 morning.

First quarter Sunday 21 day, 41 min. past 10 at night.

Full Moon Munday 29 day, 36 min. past 6 at night.

This moneth begins with moist weather to the 6 day, on which there is an oposition of Saturn and the Sun, which portends cold cloudy weather to the 15 day, from thence to the 18 day more clear, on the 18 day there is an oposition of Saturn and Mercurie which prelageth wind and rain to the 22 day, from thence to the 26 day more calm, on the 27 day there is an oposition of Jupiter and Mars, and on the 31 day a conjunction of the Sun and Mercurie in Scorpio which shows the moneth shall end with much wind and rain.

St. Monnence in Aberdeen, Dumfermling, Abercherder, St. Marnock Kirk, and Strathven the 1 day, at Kennoquhy in Fife, consisting of horse, neat, &c. with a weekly Mercat every Wednesday of all flesh, fishes, &c. belonging to the Laird of Balfour, and at Pectenweem the 3 day, St. Marnock fair at the Kirk of Leuchell the 1 tuesday, at Dumblain the first Wednesday, at markinch the 6 day, St. Annes fair at the Kirk town of tarves the 2 tuesday, St. Duthos in Tane of Ross 9 day, at Inverness and Auchertuil the 10 day, St. Causnan at Dunichtin Kirk in Angus shire the 11 day, St. Patricks fair in Dumbarton, Kirkaldy, and at the Kirk of Strageeth, & Chanry of Ross the 16 day, at S. Johnstoun the 19 day, S. Cuthberts Fair in Langtown of the Mers the 20 day, Lady day in Wester Weems. Bamff, and Auchtermuchtie the 25 day.

Whiles in March, and Whiles in Aprile.

Mid lentron Fair at Trantie banshrie on Thursday before Mid-lentron Sunday, Palm Sunday Fair at the town of Kirkwal in orkney which stands the whole week after Palm Sunday, at the Kirk of Forrig, and at the town of Innerness and St. Johnstoun all upon the Munday thereafter, a Fair at new Leslie upon the Tuesday, after Palm-Sunday, Skirethursday Fair at Glasgow, Dumbarton, Couper of Angus, Elgin of Murray, Frendraught, and in old Aberdeen the Thursday after Palm-Sunday, Pasch-Munday a Fair at Couper of Fife, and Irwin. a Fair at the Town of Forres in Murray Shire, Borrowstonness, and Corstorphine the first Tuesday after Pasch, Pasch fair at Lenerk upon the Wedensday after pasch, a fair at St. Andrews, holding all the Week after Low Sunday.

Aprile begins on Thursday, XXX dayes

Sun riseth 8 min. past 5. sets 52 min. past 6.

Last quarter Munday, 5 day, 47 min. past 11 in the forenoon

new Moon Munday, 12 day, 12 min. past 4 in the afternoon,

First quarter Tuesday 20 day, 53 min. past 4 in the afternoon.

Full Moon wedensday, 28 day, 41 min. past 2 in the morning.

This moneth begins with a conjunction of Mars with the Pleiades, and on the 3 day a conjunction of Venus and Mercurie and on the 5 day a conjunction of the Sun and Venus all which portends stormy weather to the 6 day, from thence to the 14 day fair calm and clear

clear, on the 14 day there is an opposition of Jupiter and Mercury which foretells, hail and blustering winds to the 20 day, thence to the 27 day calm and clear, on the 28 day there is an opposition of Jupiter and the Sun which portends the moneth shall end with wholesome winds and serenity.

St Oles fair at Cruden in Buchan, the first tuesday: St donalds fair at the Kirk of Auchterless in Buchan the 17 day, St. Marks fair in Dysert and Forres the 23 day, St. Marks day being the 25 day Beltan day the first being the 26 day, a fair at Rugland the 28 day, lasting 4 dayes, Rude fair at Ratray in Buchan and St. George fair at the Kirk of merb-
liek the last tuesday, a fair at Leven the 29 day, in Kelvny the 30 day.

May begins on Saturday, XXXI Dayes.

Sun riseth 4 min. past 4. sets 56 min. past 7.

Last quarter tuesday 4 day, 21 min. past 5 afternoon,

New Moon wednesday 12 day, 49 past 3 in the morning.

First quarter, Thursday 20 day, 58 min. past 8 in the morning.

Full Moon, Thursday, 27 day, 40 minuts past 10 forenoon.

This moneth begins with good weather to the 13 day only some kindly May showers about the 3 day, on the 13 day there is a Square of the Malefactors Saturn and Mars, which protends rain or hail if not thunder to the 16 day, from thence to the 20 day fair and clear, on the 20 day there is a conjunction of the Sun and Mercurie in Gemini which presageth winds to the 25 day, the moneth ends with good weather.

A fair in new Burgh of Girven the first tuesday, with a weekly mer-
cat every munday, and another every Friday, belonging to the Laird of Pinkell, St. Philips fair in the Grange of Linlithgow Shire, May fair at Falkirk and at the New Kirk of Kilpatrick the 1 day, St. minnans fair at old Chappel in Freswick within the shire of Cathness the 2 day, Rude fair at Elion in Buchan, Belton fair at Monroff in the Shire of Angus, at Kintocher and Pebles, S. Congalls fair at the Kirk of Doors in Merns shire, Fumuck fair at Fumuck Kirk in Bamff shire, Chappel of Dine in the Parish of watten, and Dinet within the shire of Cathness Holy Cross day at Beuly all on the 3 day, at Renfrew 9 d. at Carlouk, and Drymen the 10. day, Brandon fair at Bamff and Kirkaldie the 16 day, St. Johns fair at old Moldrum the last tuesday, a Fair at Glenquithel the last Wednesday.

Whiles in May Whiles in Iune.

Ascension day at the Burgh of Annan, and at Sterling ten dayes be-
fore Whitsunday: Whitsunday fair at Stone hise in Merns shire and at Alith in the shire of Angus on tuesday before Whitsunday at New Lesly the thursday before whitsunday. Whitsun-munday at Glasgow, Dum-
barton Leburgh, and Ormiston, Whitsun tuesday called Pardon-
day at Chanry in Ross, Borrow stounnes, Peter-head, Kirk of Ninians Linlithgow, & Dumolain, whitsunday fair at Lererk the Wednesday after Whitsunday, Trinity Sunday, being still the sunday after whitsunday, Trinity munday at Edinburgh, holding, 8 dayes, at Brechin S. An-
drews

drews and Bruntiland the same day, Trinity tuesday in Rugland, Trinity Wednesday at the Moor of Dun. Trinity thursday at Falkland.

June begins on Tuesday, XXX Dayes.

Sun riseth 23 min. past 3. sets 37 min. past 8.

Last quarter thursday 3 day 30 min. past midnight.

New Moon Thursday 10. day 56 min. past 8 at night.

First quarter Friday 18 day. 22 min. past 11 night.

Full Moon Friday 25 day, 35 min. past 5. of the afternoon.

This moneth begins with hot weather to the 4 day on which there is a Square of Saturn and the Sun which shows abatement of heat with appearance of hail to the 10 day on which there is an opposition of Jupiter and Venus which protends temperate weather to the 19 day from thence to the 25 day changable, on the 25 day there is a Square of Saturn and Mercurie, which protends the moneth to end with wind and rain.

At Caringtoun the 1 day, A mercat at Kinross the first tuesday, in Lang-newtown the 5 day, a fair at Stramiglo, Aberdour, and Inner-keithing the 6 day, S. Colms fair at drumhead in belhelvie Kirktown of David in the Gerry, muirs-keith near the Kirk of Lathry in Angus shire, Bernarde fair at monifeeth, and at new deer in bucken all upon the second tuesday, a fair at drymen the 9 day, in ferguson the 10 d. S. Barnabie in Lawder, Dyfert. Douglas, S. Laurence fair in Grinnock, Preston pans and dirtown margratmasse fair at dornoch all on the 11 d. S. Davids fair in baligerno in Perth shire the 12 d. St. margarets fair upon the mains of Keith-hall (sometimes called Caskjbyn,) at tur-reff. at the Burgh of Annan, and town of old hamstocks all upon the 3 tuesday, at Abernethy, and Ceres in Fife the 13 d. in Auchtertul, Belhelvie, Clackmanan, and Scoon the 15 d, at Straven the 16 d St. margaret in dumfermling, and at moffat the 18 d. at Earlestoun the 19. d. Monro's fair holden at Colrain in Ross shire the 20 d. at Methil near Levens-mouth the 22 d, St Iohn the Baptists day, and Midsummer-day being still the 24 d. in Forres, Carnwath, Hawick, and at townyet-tam on the Border, and at Frazerburgh, Air holding 4. d. wigton, Bamf, Athelstoun, Mielkour and S. Iohn fair at S. Iohnstoun all on the 24 d. in Alathy in Angus, called St Emagola, and at the town of Nicolson, both on the 25 d. St. Peters fair at Forfar, Falkland; Bruntiland. Bamff, and Kelso, all on the 26 d: at Gallashels the 27 d, St. Peter and Pauls day, being alwayes the 29 d. at Pebles, Falkirk and Tursio in Cathenes. S. Seriffs fair at the Kirk of Rulshalmen in Gerry, the last Tuesday of this Moneth. Also St, Peters fair at Migel in Perth shire and Hadingtoun, both upon the last day.

July begins on Thursday, XXXI Dayes.

Sun riseth 32 min. past 3. sets 28 min. past 8.

Last quarter Friday the 2 day 45 min. past 10 in the forenoon.

New Moon Saturday the 10 day 39 min. past 11 in the forenoon.

First quarter Sunday the 18 day 37 min. past 9 in the morning.

Full Moon Sunday the 25 day 24 min past midnight.

This moneth begins with hot weather and great drough to the 13 day on which there is a conjunction of the Sun and Mercurie,

and on the 14 day of Mars and Mercurie which presageth unwholsome winds if not hail and thunder and to the 17 day on which there is a conjunction of the Sun and Mars, and on the 18 day a Square of Jupiter and Mercurie which portends great heat and dry winds with appearance of thunder to the 22 day on which there is a square of Saturn and Venus which presageth warm shours to the 27 d. on which there is a square of Jupiter and the Sun which signifies thunder, on the 31 day there is a square of Jupiter & Mars bringing heat thunder and lightnings.

A fair at Culross, Stow, and Edzerstoun in Teviotdale all on the first day, at Abernethie and Auchtermuchtie the second day: St. Martine of Bulzeon 4 d. Peter fair at Peter head the 5 d. A New Market in Dundee the 1 tuesday, St. Thomas in Langtoun the 5 d. Lady Mercat at the Kirk of Forden in the Merns 6 d. St. Andrew, in Glasgowe Head-Castel and Innerness the 7 d. at Borrow stounness, Burgh of Annan, and Aikie fair at the town of old Deer, all on the second tuesday, St. Lawrence at Grienock the 11 d, at Kilwinning the 12 d. S. Margaret in Killimure, and at the Kirk of Forrig the 13 d. at Longholm the 15 d. in Moffat and at Kirkaldie the 18 d. at Stirling 20 d. Mary Magdalen in Lawder, Linlithgow, Pottenweem, and Path-head 22 d. S. Margarets fair at Frendraught, and in Tarves the 3 tuesday, S. Andrews Fair at the Kirk of Glass in Strabogie, on tuesday after the 15 d. in Airth and S. Christiana in Corstorphine both on the 24 d. S. Iames fair at Forfar, Kinghorn, Comper of Fife, Roxburgh, Alloway, Musselburgh and at Elgin in Murray, all on the 25 d. at Kinloch Rannoch in Athol, in Perth shire, at Turreffin Buchan last tuesday St Iames fair at Lenerk on the Last Wednesday at New Lesly, and Whitehorn the last Thursday,

August begins on Sunday XXXI Dayes.

Sun riseth 25 min. past 4 and sets 35 min past 7.

Last quarter Sunday the 1 day 52 min past 1 in the morning.

New Moon monday the 9 day 47 min. past 2 in the morning.

First quarter monday the 16 day 55 min. past 3 in the afternoon.

Full Moon monday the 23 day 30 min. past 8 in the morning.

Last quarter monday the 30 day 42 min. past 3 in the afternoon.

This moneth begins with great drough to the 7 day on which there is a square of Jupiter and Venus in Leo which foretells us of fair and temperat weather to the 16 day, on which there is a conjunction of Saturn and Mercurie which portends clouds and wind to the 24 d. thence to the end of the moneth changeable.

Lambasday in Atturff, Melross, Finnerkeithing, St Andrews and Dumbarton all on the 1 d. Lambas fair at the town of Kirkwall in Orkney the 3 day lasting 7 dayes, S. Lawrence fair in Rane the first tuesday, and Thursday after in Faulkland, Lambas fair at Kirkudbright the 1. friday, S. Lawrence in Merns shire upon Lawrence Muir, a little above the place of Hawkertown, holding 4 dayes and at Iedburgh, Marymas fair at the town of Monymusk, all upon the 2 tuesday, at Kilsyth 5 d. in Meiklour the 7 d. S. Lawrence at the old Kirk of Kirkanders the 9 day. S. Lawrence in Selkirk, Auchtermuchtie, Forres Carnwath, and

Dumblain all on the 10 d: Lady day the first in Dundee Falkirk Dinnet
in Carhness, Bamff, Merns, Vally field, Marymas fair at Innerness
all on the 15 d. at Rugland the 20 d. in scoon & monerie mercat at contin
the 22 d. Marymas fair at the town of Ellion in Buchan, and town of Ratray
in Buchan, both on the 3 tuesday, s, Botolphomew in Linlithgow, Clack-
mannan. and in pebles, all on the 24 d s Zephirinus in Corstorphine the
26 d amarevis day in Forres 27 d and S. Johns day in S. Johnstoun,
and Lawder the 29 d, at Kinkairn of Niel the last Tuesday, at Strana-
ker in the riends of Galloway, & Hook fair at Lanerk on the last Friday.

September begins on wednesday XXX Days.

Sun riseth 33 min. past 5. sets 27 min. past 6.

New Moon tuesday the 7 day 38 min. past 5 in the afternoon.

First quarter wednesday the 15 day 55 min. past midnight.

Full Moon tuesday the 21 day 26 min. past 6 at night.

Last quarter tuesday the 28 day 12 min. past 2 in the afternoon.

This moneth begins with changeable weather to the 5 d. on which
there is a square of Jupiter & Venus which presageth good harvest
weather to the 15 day on which there is a conjunction of Saturn
and the Sun in Libra which portends cold rain to the 20 day, on
which there is a conjunction of the Sun & Mercurie which bring-
eth continuance of rain to the 24 day, on which there a conjuncti-
on of Saturn and Mercurie which fortells the moneth shall end
with winds and cold weather.

S. Giles fair in Elgin the 1 d. in Moffat the 2 d. Samervis in Keith
the first tuesday, in Skirline the 4. d. later Lady day in Dundee, Stir-
ling, Bamff. and at the town of Inverury all on the 8 d at Monimusk,
Tarves, Muirskierh, and at the Kirk of Auchindoo, all on the second
tuesday, Rude fair at Innerness, Dumferling & Iedburgh the 14 d.
at Forfar and Chappel of Dine in Carhness the 15 d. at Kirkaldie the 20
d. Monens fair at the Kirk of Doors the 3 Teusday, at Bigger the 3 wed-
nesday, at old Lesly and Mathews fair at Linlithgow the 21 day, at stow
the 23 d a new fair at Kennoquhy in Fife belonging to the Laird of Bel-
four, as also at Kerrill, Dumfrie and Arhelston the 24 d. st. George
fair at Colrain in Ross shire the 25 day at Leven, Nicolson, Tranent,
Langtown and Dury, all on the 27 day, st. michaels day being alwayes
upon the 29 d. at new Lesly Hadingtoun, Air, st. Andrews, Grief-
bewly, Gallashiels and at the Kirk of Forrig, st. Elziabeths fair at
Baligerno in Perth shire, Ranfrew and burgh of Annan all on the 29 day,
Michalmas fair at Kircudbright the first friday. thereafter, S. Jerom in
Bamff the last day. at the Kirk of Kinel, Giffurd near the house of yester,
and frazerburgh on the last tuesday.

October begins on Friday XXXI daycs.

Sun riseth 43 min. past 6, sets 17 min. past 5.

New Moon thursday the 7 day 46 min. past 7 in the morning.

First quarter thursday the 14 day 52 min. past 6 morning.

Full Moon thursday the 21 day 2 min. past 7 morning.

Last quarter friday the 29 day 57 min. past 5 in the morning

This moneth begins with good weather to the 5 day on which

there is a conjunction of Mars and Venus, and of Saturn and Mercury on the 6 day, which protends winds and snow to the 13 day, on which there is a conjunction of Saturn and Venus which foretelleth cold rain to the 23 day, on which there is a conjunction of the two malefactors Saturn and Mars in Libra, which protends abatement of cold, yet it presageth much evil to those places and persons under Libra.

The 1, 2, 3, a fair in salt Preston; at Dundee, Alith, Kinloch Rannoch in Athol, Turreff in Buchan, mid-caldar all on the 1 Tuesday of this moneth, S. Francis in Abernethie and Velley field the 4 d. in merkloir the 5 d. in Cowper of Fife the 6 day, at the town Lon-head of Liff-waid, and at markinech the 8 d. S. Dinnet in S. Iohnstoun. Dionise in Pebles, Earleston, Kirkinilloch, Aiton, Auchtermuchty, Ceres, in fife, Killimuir, moffat, all on the 9 d. Truelfair at the Kirk of Penith Moneth, and at Kirkton of monifeeth, the 2 Tuesday, at drumhead in belhelvie the 2 Wednesday at Dalkeith, and Tillibel the 10 d. a fair at Eglesim the 11 day, at Ennerkeithing and Strathven the 12 d. fenduff at Dinning the 13 day, S. Luke's fair at old Aberdeen, town of old Ham-flock and Tarves the 3 Tuesday in Borrowstouness and Musselburgh 16 d. S. Luke day, being still on the 18 d. at Kester in Cathness and Caring-toun. The same day, a fair at Larder, Kinross and Rugland. S. Ilena in Corstorphine, at the Kirk of Carleuk, Ormiston and town yettarn, in the Border, all on the 20 d. at the new Kirk of Kilpatrick 21 day Mary salamine in stirling and Kelso 22 d. Borrowmoss fair at dornoch at forfar and Linlithgow 24 d. S. Iudas fair at Glenquhirkhill the penult Wednesday at Stenton the last Tuesday, Hallow fair at Ratry in Buchan the last Tuesday, in Kilreny and Stramiglo the 25 d. fowles fair in Pasley and Falkirk the 26 d. S. Simon and Iudas day, in Dysert, Cockeny Kirlistoun, Hawick, migel in perthshire, and Rosline all on the 28 d. in Alloway and Nicolson the 29 d. at whitehorn the last Thursday

November begins on Munday XXX Dayes.

sun riseth 53 min. past 7 and sets 7 min past 4.

New Moon friday the 5 day 56 min. past 8 at night.

First quarter friday the 12 day 53 min. past 1 in the afternoon.

Full Moon friday the 19 d. 4 min. past 11 at night.

Last quarter sunday the 28 day 10 min. past 2 in the morning.

This moneth begins with unconstant weather to the 8 d. on which there is a conjunction of the Sun and Mercurie which protends moist weather to the 12 day, on which there is a conjunction of Jupiter and Mercurie which bringeth snow to the 15 d. on which there is a conjunction of Jupiter and the Sun protending abatement of cold to the 19 d. on which there is an Eclipse of the Moon in the 8 d. of Gemini near the Bullseye which shows there shall be great frost towards the end of the moneth,

A fair at Edinburgh the 1 day, holding 8 dayes, fordice and Dumblain. at the New Burgh of Girven and at Iedburgh upon the first Tuesday, S. Leonards fair at Lanerke the first Wednesday, Hallowmis fair at Bewly & Alathy the 2 day: at Kilwinning the 3 day, at forres & Lar

the 6 day, martmas day being still on the 11 d. at Dumbat, melrois, Cowper of fife, Hamiltoun. Culross, martins Kirk, Kilmahaug, Inner-
 ess and strabogie all upon the 11 d martimas fair at the town of Kirk-
 ball in Orkney the whole martimas week. S. Denick at methil the 2 tues-
 day, at Kilsyth the 12 d, S. Helen at Dundee the 13 d at Grinnoek and
 town in monteith the 15 d margratmas fair at Borrowstonness Dumferm-
 ing and Lauder the 16 d at Tane, Auchtertul and Bryack fair at the
 Kirk of Rowl all on the 22 d. at Bruntisland the 23. d. Andersmas fair
 at stradon and frazerburgh the 29 d at old meldrum last tuesday, S And-
 ews day, in S, Iohnstoun, pebles and Chirnj de the 30 day.

December begins on Wednesday XXXI days.

Sun riseth 37 min. past 8. sets 23 min. past 3.

New Moon Sunday the 5 d. 44 min. past 8 in morning.

First quarter Sunday the 12 d. 45 min. past midnight.

Full Moon Sunday the 19 d. 55 min. past 4 in the afternoon.

Last quarter munday the 27 d. 1 min. past 9 at night.

This moneth begins with a conjunction of Jupiter and Venus
 in Sagitarius on the 1d. which promiseth fair and temperat wea-
 ther to the 7 d. on which there is a square of Saturn and Mercury
 portending wind and snow to the 13 d. from thence to the 22 d,
 changeable, on the 22 d. is a square of Saturn and the Sun bring-
 ing frost and snow to the 29. d. on which there is a Square of Sa-
 turn and Venus, which sheweth the year will end with cold rainy
 weather.

At Tarves the first tuesday. Nealandrice fair at dornoch 5 d S Nicol-
 as fair at Rensfrew the 6 d in Aberdeen the 7 d at West Weemsthe 8 d.
 Kellamas fair at the Kirk of Rey in Cathness, Bamff, Rothemay, and
 the town of Deer the 14 d, manmase fair at the Kirk of Watten in Cath-
 ness the 15 day. S. Cuthbert in Grange of Linlithghw the 17 d S Thomas
 in Gasgow, Inverness, and at the Down in mon-eith the 18 d. S Thomas
 d. being 21 d Christmas the 25 day, s. Stevens day, the 26 d. S. Iohns day
 the 27 day at forres, and methil, all upon S. Iohns day, S, Davids fair at
 Gerry the first tuesday after Christenmas.

An everlasting Almanack for finding the Golden number, Epact, Dominical Letter, the Letter that begins each Moneth and Moveable Feasts.

1. For the Golden number, or Prime.

One to the year first add, by nineteen then
 The sum divide, so shal the Prime remain.

2. For the Epact, by T. S.

Divide by three, for each one left add ten,
 Thirty reject, the Prime makes Epact then.

3. For the Dominical Letter, by T. S.

Divide the year its fourth and four by seven.

What rests substract from 7 the Letters given.

1 A, 2 B, 3 C, 4 D, 5 E, 6 F, 7 G,

4. To find the Letter which begins each moneth, thereby to know upon what day of the week any day of the moneth falls.

A Jan. October, D. Feb. March and November,
G, April, July, F, Septem. and December,
B. May, E, June, C, August doth begin
On Sunday makes its letter still come in.

5. To find Moveable Feasts.

From the first change in *Aries* count fourteen,
Pasch-sunday next, you'll find then Fastens-even
Six weeks and five dayes before Pasch will be
Whitsunday seven weeks after Pasch make ye:

Example, Let the year be 1686. to which I add one, the sum is 1687. which divided by 19, the remainder is 15. For the Golden number or Prime, which divided by 3, there remains nothing: so is the Epact likewise 15, & then for the Dominical Letter I add to the year 1686. its fourth 421. and 4 together, the sum is 2111, which divided by 7, there remains 4, which subtracted from 7, there remains 3, which sheweth the Dominical Letter to be C, (being the third letter of the Alphabet.) Now to find what day of the week any day of the moneth falls this year, suppose the 10 day of March, the Dominical Letter being C, which sheweth that C must fall upon Sunday all the year over: then D being the first letter of the Alphabet after C, and munday being the first day after Sunday; Now if March begin on Munday the 8 day of March will likewise be munday, the 9d. tuesday. and the 10 day Weduesday required.

To find the Moons age very near by the Epact, add the Epact day of the Moneth, and moneths from March together, and the sum if it exceed not the number of dayes which the moneth contains, is the Moons age; but if it exceed, subtract the number of dayes less by one which the moneth contains, and the remainder is the age of the Moon: Example, September 20. 1686.

The Epact is	-	-	-	15,
The day of the moneth	-	-	-	20:
The moneths from March	-	-	-	7.
The sum	-	:	-	42.
From which take	-	-	-	29.
Rests the Moons age,	-	-	-	13.

To find the Moons southing, very near by her age, multiply the Moons age by 4, and divide the Product by 5, and the Quotient is the hours of the Moons southing, and each one that rests is 12. minuts. If the Moons age exceed 15, subtract 15 therefrom, and work with the remainers. Example, September the 20 1686, the Moons age is 13, which multiplied by 4, the Product is 52, the sum divide by 5, the Quotient is 10 houres, and 2 remaining which is 24 minuts, for the Moon southing required.

To find the hour of the night by the Moons shining on a Sun-dial.
Add the time of the Moons southing, to the hour she gives upon

on the Sun-dyal, and the sum will be the hour of the night required. Example, the 20. day of September 1686. the Moon setting on 11. hours, the Moons southing being added there- viz: 10 hours, 24. minutes, the sum is 21. hours 24. minutes, from which subtract 12. hours, there will remain 9 hours 24. minutes for the hour of the night required.

An Everlasting Table of the Moveable Feasts Corrected.

Dom.	Epacts	Fastens Even.	Pasch	Whit- unday	The use of this Table of Moveable Feasts,
D	23	Feb.	March 22	May 16	Seek the Dominical Letter in the first column and the epact in the 2 of the same row that the Dominical Letter is in, and to the right hand thereof in the 3 last columns you have the Moveable Feasts required.
	22 21 20 19 18 17 16	Feb. 10	March 29	May 17	
	15 14 13 12 11 10 9	Feb. 17	April 5	May 24	
	8 7 6 5 4 3 2	Feb. 24	April 12	May 31	
	1. 29 28 27 26 25 24	March 3	April 19	June 7	
E	23 22	Feb. 4	March 23	May 11	
	21 20 19 18 17 16 15	Feb. 11	March 30	May 18	
	14 13 12 11 10 9 8	Feb. 18	April 6	May 25	
	7 6 5 4 3 2 1	Feb. 25	April 13	June 1	
	9 28 27 26 25 24	March 4	April 20	June 8	
F	23 22 21	Feb. 5	March 24	May 12	
	20 19 18 17 16 15 14	Feb. 12	March 31	May 19	
	13 12 11 10 9 8 7	Feb. 19	April 7	May 26	
	6 5 4 3 2 1. 29	Feb. 26	April 14	June 2	
	28 27 26 25 24	March 5	April 21	June 9	
G	23 22 21 20	Feb. 6	March 25	May 13	
	19 18 17 16 15 14 13	Feb. 13	April 1	May 20	
	12 11 10 9 8 7 6	Feb. 20	April 8	May 27	
	5 4 3 2 1. 29 28	Feb. 27	April 15	June 3	
	27 26 25 24	March 6	April 22	June 10	
A	23 22 21 20 19	Feb. 7	March 26	May 14	
	18 17 16 15 14 13 12	Feb. 14	April 2	May 21	
	11 10 9 8 7 6 5	Feb. 21	April 9	May 28	
	4 3 2 1. 29 28 27	Feb. 28	April 16	June 4	
	26 25 24	March 7	April 23	June 11	
B	3 22 21 20 19 18	Feb. 8	March 27	May 15	
	17 16 15 14 13 12 11	Feb. 15	April 3	May 22	
	10 9 8 7 6 5 4	Feb. 22	April 10	May 29	
	3 2 1. 29 28 27 26	March 1	April 17	June 5	
	25 24	March 8	April 24	June 12	
C	23 22 21 20 19 18 17	Feb. 9	March 28	May 16	
	6 15 14 13 12 11 10	Feb. 16	April 4	May 23	
	9 8 7 6 5 4 3	Feb. 23	April 11	May 30	
	2 1. 29 28 27 26 25	March 2	April 18	June 6	
	24	March 9	April 25	June 13	

Example, in the year 1686 the Dominical Letter is C, and

e Epact is 15. therefore I seek IC in the first column, and in the second line belonging to C. I find the Epact 15, which sheweth Fastens-even to be February the 16 day, and Pasch on April the 4 day, and Whitsunday May the 23d day required.

The foundation of the Moveable Feasts.

All the Moveable Feasts are founded from the feast of Pasch or Easter, in memory of the Resurrection of our Saviour being the first Sunday after the Jews Passover, *Matthew 28 Mark 14, and Luke 22.* The Jews Passover being still celebrated by the people of Israel (in their offering of the Paschal Lamb) upon the 14 day of the first moneth Nisan or Abib, at evening; *Exodus 12. Leviticus 23. and Numb. 9.* the beginning of which moneth is from the new Moon next following the Vernal Equinoctial the Jews alwayes reckoning their moneths by the Moon, and their hours unequally by the length of the day and night; always beginning their day at the Sun-rising. Now the Vernal Equinoctial day, according to the Julian accompt (whereby we reckon) in this Age, is about the 10. of March.

Then Whitsunday which was celebrated by the Jews the 50 day after the Passover. In token that the Law was given in mount Sinai 50 days after the Children of Israel departed from Egypt, *Exodus 19. 1. 16.* It is also called the Feast of the Harvest, *Exodus 23. 16.* But the Christians observe it the 7 Sunday after Pasch, because on that day the holy Ghost was sent, *Acts 2. 1, 2, 3, 4.* where it is called Pentecost, that is the fiftieth day. It was against this feast that St. Paul hastened to be at Jerusalem, *Acts 20. 16.*

As for Fastens-even it is six weeks and five days before Pasch being that 40 dayes which is accompted for Lent, beside the Sundayes; this is so clear, that I think no Christian will deny it.

Note, that the errors of an old table published by Dyonisius Abbas, in the time of Justinianus the Emperor, have caused the Almanacks set out at Aberdeen, and Glasgow; and most of the English Almanacks to err a week in the feasts, in the year 1685; and if not timeously prevented they will likewise err 3 weeks in the year 1687, 1688, one week, 1691 one week, 1694 one week, 1695. 4 weeks, 1697 one week, 1698 one week, 1701 one week &c. As for the old Rule, First comes Candlemas, then the new Moon
Next tuesday after is Fastens-even.

It is most false and ridiculous, seldom agreeing with the truth, founded upon Pasch as aforesaid. as for example, in 1687 the first change after the Vernal Equinoctial or 10. of March is on April the 2d. day, 48 minuts past 1 in the morning, then 14 days after is April, 15 for the Jews Passover, then April the 17 day ought to be Pasch; Fastens-even March 1 day; Whitsunday June 5 day. But by the old table and rule they make Fastens-even February 8; Pasch March 27, Whitsunday May 15 which is full three weeks false.

I cannot here let pass the ignorance of Mr. *Duncan Liddel* author of the *Aberdeens Almanack*, who not finding the digits eclipsed in *John Gadburies Ephemerides*, which he copieth exactly, endeavours to make that himself, 7 degrees 25 m. whereas the greatest eclipse that ever was never exceeded one degree; and yet he will impudently call me ignorant, and *Mathematicus nomine tenus*, &c. having no more congruous Latine, that he can trust to, as appears in his construction of two words of Latine in his last years Almanack, viz. *prima cornu*, although he confesseth *Stella* to be understood, therefore I must tell him the rules of construction in *Disputers Grammer*, thus *prima stella*, by the first rule of Construction; *Mobile cum fixo*, &c. *stella cornu*, by the first rule of the genitive case, *si duo continue*, &c. which I hope no Grammatician will deny.

A Table shewing the Tide at Leith.

Moons age,		Full Sea at Leith.	
Incr.	Decr.	hour.	min.
1	16	3	3
2	17	3	46
3	18	4	29
4	19	5	7
5	20	5	45
6	21	6	19
7	22	6	51
8	23	7	39
9	24	8	42
10	25	9	45
11	26	10	43
12	27	11	41
13	28	0	34
14	29	1	27
15	30	2	15

A Tide Table for Leith, Corrected by James Paterson Mathematician.

The Use,

Seek the Moons age in the first and second Column of the Table, and in the two last Columns you have the true time of full Sea at Leith.

Example to find the full Sea the 5 of April, 1686: I find the moons age by the following Table to be 23, which I find in the second column of this Table, and over against it in the last column I find 7 h: 39 m: the true time of full Sea required

In the 1 and 2d Edition of my Almanack, 1685, I have answered 12 Problems to Mr. *Duncan Liddel*, and put only two to him, which he cannot answer; therefore my first lesson to him is, that the longitude of the first Star in the Rams horn, is *Aries* 28 d. 49 m. 15 s (equal to the precession of the Equinoctial) latitude 7 d. 8 m. 30 s. according to Tycho.

Thou Ignorant and such like others call,
Whereas thy self most Ignorant in all,
The mathematicks, which I le make appear,
In June and July this insueing year,
For June last quarter, for July look full moon,
In each a day thou'rt wrong, appeareth soon.

A ready Table shewing the Age of the Moon every day throughout this Year, 1686.

	January	February	March	April	May	June	July	August	Septem	Octob.	Novem	Decem.
1	18	19	17	19	19	21	21	23	24	24	26	27
2	19	20	18	20	20	22	22	24	25	25	27	28
3	20	21	19	21	21	23	23	25	26	26	28	29
4	21	22	20	22	22	24	24	26	27	27	29	30
5	22	23	21	23	23	25	25	27	28	28	30	1
6	23	24	22	24	24	26	26	28	29	29	1	2
7	24	25	23	25	25	27	27	29	30	1	2	3
8	25	26	24	26	26	28	28	30	1	2	3	4
9	26	27	25	27	27	29	29	1	2	3	4	5
10	27	28	26	28	28	30	1	2	3	4	5	6
11	28	29	27	29	29	1	2	3	4	5	6	7
12	29	30	28	30	1	2	3	4	5	6	7	8
13	30	1	29	1	2	3	4	5	6	7	8	9
14	1	2	1	2	3	4	5	6	7	8	9	10
15	2	3	2	3	4	5	6	7	8	9	10	11
16	3	4	3	4	5	6	7	8	9	10	12	12
17	4	5	4	5	6	7	8	9	10	11	13	13
18	5	6	5	6	7	8	9	10	11	12	14	14
19	6	7	6	7	8	9	10	11	12	13	15	15
20	7	8	7	8	9	10	11	12	13	14	16	16
21	8	9	8	9	10	11	12	13	14	15	17	17
22	9	10	9	10	11	12	13	14	15	16	18	18
23	10	11	10	11	12	13	14	15	16	17	19	19
24	11	12	11	12	13	14	15	16	17	18	20	20
25	12	13	12	13	14	15	16	17	18	19	21	21
26	13	14	13	14	15	16	17	18	19	20	22	22
27	14	15	14	15	16	17	18	19	20	21	23	23
28	15	16	15	16	17	18	19	20	21	22	24	24
29	16	17	16	17	18	19	20	21	22	23	25	25
30	17	18	17	18	19	20	21	22	23	24	26	26
31	18	19	18	19	20	21	22	23	24	25	27	27

The dayes of the Moneths.

For the use of the Mathematicall Instruments, as Croſſe-ſtaffes, Quadrants, Scales, Spiral-Lines Noſturnals, Dials, either Universal or Particular, Uncles for weighing money, or the like; Portable Ink, Sea Compaſſes made or direct, or any Mathematicall or Sea-Books. Also, who deſire to be taught in any part of the Mathematicks, as Navigation, Gunery, ſurveying, Gauging, Dialing, Architeſtury, &c. may find me at the ſign of the Sea-Croſſaffe and Quadrant: my Arithmetick Book is to be ſold at Edinburgh by Alexander Ogſton, and George Moſman Book-ſellers in the Parliament cloſts, and at my own houſe; in the Comgate ſign of the Quadrant by James Brown at Glaſgow, and by Andrew Man at Antrim in Ireland. by J. P.

